Project Delivery Tools continued

Value Engineering

WSDOT has been using this tool since 1987. Value Engineering is a process that breaks components of a project into functions. A team of experts meets for three to five days during the project development process to identify solutions that will satisfy the functions. Value Engineering teams start with a small group of experts in the required disciplines (Design, Construction, Bridge, Environmental, Maintenance). Then we add partners from outside such as WSDOT, cities, counties, other agencies, outside funding sources, and permitting agencies. Value Engineering has been successful on complex projects with interchanges, major structures, new alignments, extensive traffic control, or unusually high cost. Value Engineering has not been beneficial on small, simple projects, such as paving projects. Value Engineering success has not come by changing the scope or design; it has often come from removing constraints or drivers set by others.



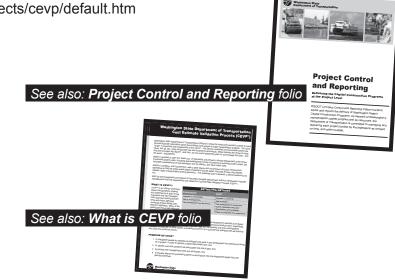
For more details, see http://www.wsdot.wa.gov/eesc/design/VE/

SR 167, Tacoma to Puyality New Freewy Construction Description: Commission SR 15 to the Puglish on the Port Agencies and the New Puglish on the New Pug

Cost Risk Assessment

WSDOT created the Cost Estimate Validation Process (CEVP®) in June of 2002. It is an intense workshop where transportation projects are examined by a team of top engineers and risk managers from local and national private firms and public agencies, who review project details with WSDOT engineers. The CEVP® workshop team uses systematic project review and risk assessment methods to identify and describe cost and schedule risks, and evaluate the quality of the information at hand. Importantly, the process examines, from the very beginning, how risks can be lowered and cost vulnerabilities can be managed or reduced. A dividend of CEVP® is the promotion of activities that will improve final cost and schedule results.





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Americanswith Disabilities Act (ADA) Information: Individuals requiring reasonable accommodations may request written materials in alternative formats by calling Ben Brown collect at (206) 440-4528. Persons who are deaf or hard of hearing may call the Washington State Telecommunications Relay Service, or Tele-Braille at 7-1-1, Voice 1-800-833-6388 and ask to be connected to (206) 440-4528. Civil Rights Act, Title VI Notice to Public: It is the Washington State Department of Transportation's (WSDOT) policy to assure that no person shall, on the grounds of race, color, national origin and sex, as provided by Title VI of the Civil Rights Act of 1964, be excluded from participation in, be denied the benefits of, or be otherwise discriminated against under any of its federally funded programs and activities. Any person who believes his/her Title VI protection has been violated, may file a complaint with WSDOT's Office of Equal Opportunity (OEO). For Title VI complaint forms and advice, please contact OEO's Title VI Coordinator at (360) 705-7098.











Managing Project Delivery

Delivering the Capital Construction Programs at the Project Level

Over the last few years, the Washington State Department of Transportation (WSDOT) has created this set of project management tools and processes for project managers and team members.

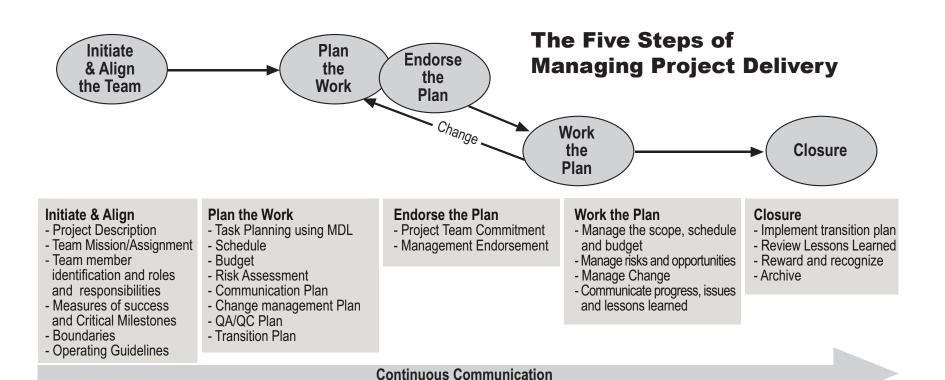
Managing Project Delivery (MPD) is the backbone for project managers to effectively and efficiently deliver projects on time and within scope and budget.

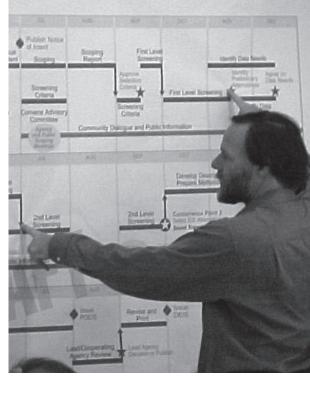
Managing Project Delivery (MPD)

Managing Project Delivery (MPD) is the standard practice adopted by WSDOT to manage projects and provides a method to meet the WSDOT Management Principles. (See WSDOT Management Principles at www.wsdot.wa.gov/accountability/mgmtprinciples.htm)

Project management requires the application of skills, knowledge, tools, and techniques to deliver the project on time, within budget, and according to specifications. There are proven industry standards for project management, such as the Project Management Body of Knowledge (PMBOK) through the Project Management Institute (PMI). The MPD process, as adopted by WSDOT, is based upon those industry standards.







The five steps of MPD can be further simplified into two basic phases:

Preparation – "Plan the Work"

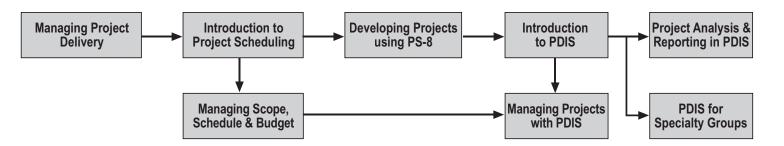
Execution – "Work the Plan"

In a typical project application, planning the work (the first two steps) will constitute approximately 10% of the total project effort and time. The remaining three steps constitute approximately 90% of the project effort and time.

Project Delivery Tools

- Managing Project Delivery process (MPD)
- Project Delivery Training
- Project Delivery Information System (PDIS)
 - o Master Deliverable List (MDL)
 - o Scheduling Software
 - Highways Project Scheduler 8 (PS8)
 - Ferries & Urban Corridors Primavera (P3E)
- Value Engineering
- Cost Risk Assessment
- Project Control and Reporting

Project Delivery Training



Project Delivery Information System (PDIS)

The Project Delivery Information System (PDIS) is a tool to assist in effectively and efficiently managing project schedules, resources, and the resulting costs to complete projects. PDIS enhances communication and coordination between staff engaged in project and program delivery at the project team, office, region, and statewide levels. PDIS is designed for use in WSDOT's Highway Design and Construction Program. It is intended as a project scheduling, tracking, and reporting tool for program managers, project managers, their designees, and specialty group project contacts.

Master Deliverables List (MDL)

PE-S-8	Hydraulics
PE-S-8.1	Preliminary Hydraulics Analysis
PE-S-8.1.1	Stormwater Analysis
PE-S-8.1.2	Closed System Analysis
PE-S-8.1.3	Chronic Environmental Deficiency Analysis
PE-S-8.1.4	Recommended Best Management Practices (BMPs)

The Master Deliverables List (MDL) is a standardized naming convention that allows the WSDOT to evaluate deliverables from multiple projects enterprise wide.

